

**Notice of Allowability**

Application No.

09/810,456

Examiner

Lewis G. West

Applicant(s)

CHOU, JASON

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed March 19, 2001.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Allowable Subject Matter*

Claims 1-7 are allowed.

The following is an examiner's statement of reasons for allowance:

Upgradeable devices, as well as modular devices were well known at the time of the invention, as were structures and associated circuitry for coupling devices via various physical electrical connections including cables and cards. The prior art does not disclose the specific structure of a data shifter with mobile control device, comprising a main casing with an opening thereon; the main casing further comprising a primary circuit board with two lateral facial sides, providing electric circuits at a front part and a rear part thereof respectively on one of said two lateral facial sides; a control interface, being at a front side of said main casing, and connecting with electric circuits at the front part of said primary circuit board; a plurality of connecting interfaces, being at a rear side of said main casing, and connecting with electric circuits at the rear part of said primary circuit board; and a periphery control circuit, being at the other lateral facial side of said primary circuit board, providing at least a main connector projecting outward from the primary circuit board being opposite to and corresponding to the opening on the main casing; and the mobile device being a box or a frame with a size corresponding to the opening; the mobile device further comprising an secondary circuit board extending laterally with at least an auxiliary connectors thereon corresponding to the main connector; at least a control chip with control program, being on the secondary circuit board; and a rear protect plate, closing the opening; whereby, the secondary connector can engage with and disengage from the primary connector due to the mobile control device being inserted into or taken out from the opening for signal connection or disconnection. The advantage of applicant's invention being a more easily

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upgradeable data shifter. When incorporating all the limitations of the claim, none of the prior art discloses the features as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


|                   |                          |
|-------------------|--------------------------|
| US 5546273 A      | Harris; Wayne            |
| US 6349037 B1     | Draughn; Roy Lee et al.  |
| US 6511139 B2     | Liu; Cheng Kuo           |
| US 6525926 B1     | Chen; Steven             |
| US 6552914 B1     | Chang; Chang-Yu          |
| US 20030067752 A1 | LaMothe, Brian P. et al. |

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis G. West whose telephone number is 571-272-7859. The examiner can normally be reached on Monday-Friday 7:00-3:30.

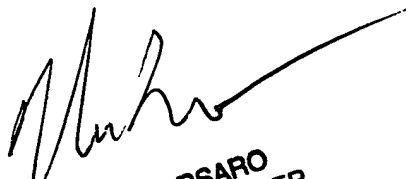
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro can be reached on 571-272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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NICK CORSARO  
PRIMARY EXAMINER